DENON PROFESSIONAL

AV Surround Receiver

AVR-989P

The AVR-989P is equipped with decoders for next-generation audio formats such as the lossless audio Dolby TrueHD and DTS-HD Master Audio formats. This model also features high-performance video processing circuitry that reproduces SD video material from DVD players and other sources in 1080p HD quality. The AVR-989P also monitors the structural elements of sound sources and uses Dynamic Volume to adjust volume without sacrificing dynamic range. This A/V receiver masterfully controls a variety of media for optimum playback of high-quality audio and video content.



New Features

- Audyssey Dynamic Volume and Dynamic EQ
- 4 HDMI inputs (Audio and Video)
- Sirius and XM Satellite Radio ready
- State-of-the-art Denon Solutions for Maximizing Content Quality
  - Reproduce as perfect as a content producer intended to express (Denon Circuitry and Construction for Hi-Fi Sound Quality / Compressed Audio Restorer)
  - Easy to use (QUICK SELECT / Audyssey DYNAMIC EQ + DYNAMIC VOLUME)
  - Connectivity (HDMI / Dock Control Terminal (Network ready)

High Quality Sound

- Identical quality and power for all 7 channels, 115W x 7ch
- Discrete devices for ultimate peformance in each block
- Dynamic Discrete Surround Circuit, D.D.S.C.-HD
- Dual New 32-bit floating point high resolution DSP processors
- AL24 Plus processing provides extended dynamic range
- Minimum signal path design
- Direct Mechanical Ground for stable drive
- Digital / Analog separate windings
- Stable power supply for high-quality sound and picture playback
- Compressed Audio Restorer

High Quality Video

- Discrete devices for ultimate HD video performance in each block
- Denon's High Picture Quality Cicuitry, to enhance enjoyment of existing DVDs
- Faroudja DCDi Video Processing
- Analog video to HDMI scaling up to 1080p
- 1080p video pass through

Connectivity and Future-ready Expandability

Digital Media Connectivity

- Optional Network Streaming iPod Dock (ASD-3N - wired, ASD-3W - wireless)
- Optional iPod Audio/Phone and Video Playback Dock (ASD-1R)
- Optional iPod/iPhone Audio/Photo and Video Playback Dock (ASD-11R)

Multi-zone Capability

- 2 source / 2 zone capability
- RS-232c control, 150mA Trigger output

Ease-of-Use

- Audyssey Dynamic Volume and Dynamic EQ
- Audyssey MultEQ XT Auto setup and Room EQ

State-of-the-art Denon Solutions for Maximizing Content Quality

Robust power source for each block, for stable supply of current
To produce a clear, stable power circuit that prevents unwanted noise from affecting the sound, the AVR-989P has dedicated CPU and Standby transformers that are separate from the audio and video circuitry. The AVR-989P is endowed with a powerful rectifier circuit with 15,000μF block capacitors and a bridge diode of 8A capacity, surpassing typical models in this price range, to supply stable current with negligible noise.

Minimum Signal Path
The "simple and straight" design concept has been thoroughly implemented in the signal paths to contribute to immaculately clean audio and video playback.

Signal paths are as short as possible to keep signal degradation in the audio and video circuitry to an absolute minimum.

Direct Mechanical Ground
Vibration-resistant construction has been reviewed to thoroughly suppress the adverse influences of vibration on sound quality.

The power transformers, a source of vibration, have been securely mounted on the highly rigid bottom-chassis.

Direct mounting of cast-iron feet to the radiator in near proximity to each other serves to suppress mutual vibration with the power transformers and other sources of vibration.

Compressed Audio Restorer
Denon's new audio technology for MP3/WMA/AAC compressed audio formats restores higher frequency sounds, along with rich, deeper bass.

Connectivity & Future-ready expandability

- Power amplifier assign for zone 2
- Remote in / out
- 2-way remote ready
  - (optional: DENON RC-7000CI/RC-7001RCI)

AVR-989P

Ease-of-use

Audyssey Dynamic Volume, for real-time volume adjustment
Large changes in volume sometimes occur between documentaries where the sound is mainly narrative and movies which often contain loud sound effects. Viewers often raise the volume for documentaries to hear the narrative more easily but the turn it down again when a commercial with loud sound effects comes on. They do this numerous times during a program of this type. Audyssey Dynamic Volume constantly monitors the sound sources and adjusts the volume to the optimum level for the particular source being heard without sacrificing dynamic range.

The AVR-989P is also equipped with Audyssey MultEQ XT which measures the acoustic characteristics of the room to obtain the optimum acoustic effects, and Dynamic EQ which reproduces the high and low range with the optimum acoustic effect during low volume levels. Dynamic Volume combines these two functions to achieve maximum performance.

Audyssey MultEQ XT Auto setup and Room EQ
Tower type microphone for more accurate measuring

Up to eight measurement points

ALFC (Adaptive Low Frequency Correction) filtering for higher resolution processing in the low frequency range.

2-line fluorescent display on front panel
Current status, such as the input source or audio format, is displayed in two lines. It is also possible to check the name of the album or music track of the memory audio item or other items without viewing the TV screen.

The 2-line display also makes it possible to easily change the settings without the OSD (On-screen Display) on the TV monitor.

Three Quick Select Buttons
Auto setup, Auto Surround, Auto Signal Detection
Auto Surround Back Channels on for auto-detection of supporting sources
Auto Surround Mode
Audio Delay function (max. 6 frames or 200 msec)
Night mode for neighbor friendly listening
Muting level settings (Full / -40dB / -20dB)
Audio Level Memory, capable of correcting different signal levels for each input device
Volume Level Limiter, for setting maximum volume levels
Power-ON Volume Level Memory
Variable subwoofer crossover switching

Specifications

Power Amplifier Section

Rated output:	*THD figures are power amp stage values
Front L/R:	115 W + 115 W (8 ohms, 20Hz-20kHz, THD 0.08%) 145 W + 145 W (6 ohms, 1kHz, THD 0.7%)
Center:	115 W (8 ohms, 20Hz-20kHz, THD 0.08%) 145 W (6 ohms, 1kHz, THD 0.7%)
Surround L/R:	115 W + 115 W (8 ohms, 20Hz-20kHz, THD 0.08%) 145 W + 145 W (6 ohms, 1kHz, THD 0.7%)
Surround Back L/R:	115 W + 115 W (8 ohms, 20Hz-20kHz, THD 0.08%) 145 W + 145 W (6 ohms, 1kHz, THD 0.7%)

Preamplifier Section

Input Sensitivity / Impedance:	200mV / 47 kohms
Frequency Response:	10Hz ~ 100kHz – +1, -3dB (DIRECT mode)
S/N Ratio:	100dB (IHF-A weighted, DIRECT mode)

FM Section

Tuning Frequency Range:	87.5 – 107.9 MHz
Usable Sensitivity:	1.0 μV (11.2 dBf)

AM Section

Tuning Frequency Range:	520 – 1710 kHz
Usable Sensitivity:	18 μV

General

Power Supply:	AC 120 V, 60Hz
Power Consumption:	6.0 A (Standby 0.1W)
Dimensions (w/o rack kit)	
Width:	434mm (17 3/32”) w/o rack kit
Height:	171mm (6 47/64”)
Depth:	414mm (16 19/64”)
Weight:	12.8Kg (28 lbs, 3.5 oz)

PLEASE NOTE: Specifications are based on measurement conditions and proper care for the machine, and are subject to change without notice.



Inputs/Outputs

IN	HDMI	4
	Component	3
	S-Video	7
	Composite	7
	Analog Audio (Tuner incl.)	10
	Analog Ext. Input	7.1 ch
	Digital OPTICAL	3
	Digital COAXIAL	3
OUT	HDMI Monitor	1
	Component Monitor	1
	S-Video Monitor	1
	REC	2
	Composite Monitor	1
	REC	2
	Analog Audio REC	2
	Zone 2	1
	Audio PRE out (7.1 ch)	1
	Digital OPTICAL	1
Others	Dock Control Port	1
	Sirius Connector	1
	XM Connector	1
	FM Tuner Antenna	1
	AM Tuner Antenna	1
	Remote IN / OUT	1
	RS-232c	1
	Trigger Output (+12V, 150mA)	2

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